

Title (en)
Optical projection lens system

Title (de)
Optisches Projektionslinsensystem

Title (fr)
Système optique de projection à lentilles

Publication
EP 1094350 A2 20010425 (EN)

Application
EP 00119874 A 20000913

Priority
US 16079999 P 19991021

Abstract (en)
An optical projection lens system comprising in direction of propagating radiation a first lens group having positive refractive power a second lens group having negative refractive power and comprises a waist with a minimum diameter of the propagating radiation a further lens arrangement with positive refracting power, which follows the second lens group, wherein at least one lens of the projection lens system, which is arranged in front of the waist comprises an aspherical surface. <IMAGE>

IPC 1-7
G02B 13/14; **G02B 13/24**

IPC 8 full level
G02B 3/00 (2006.01); **G02B 9/00** (2006.01); **G02B 13/14** (2006.01); **G02B 13/18** (2006.01); **G02B 13/24** (2006.01); **G03F 7/20** (2006.01); **H01L 21/027** (2006.01)

CPC (source: EP KR US)
G02B 13/143 (2013.01 - EP US); **G02B 13/24** (2013.01 - EP US); **G03F 7/20** (2013.01 - KR); **G03F 7/70241** (2013.01 - EP US)

Cited by
US6556353B2; US6606144B1; WO03077037A1; WO02052303A3; US7092069B2; US6806942B2; US6538821B2; US6781766B2; US6862078B2; US6674513B2; US6864961B2; US8007986B2; US6891596B2; US7203008B2; US7312847B2; US7495840B2

Designated contracting state (EPC)
DE FR IE NL

DOCDB simple family (publication)
EP 1094350 A2 20010425; **EP 1094350 A3 20010816**; JP 2001141995 A 20010525; KR 100832153 B1 20080527; KR 20010051115 A 20010625; TW 451076 B 20010821; US 2003179462 A1 20030925; US 2004201899 A1 20041014; US 2005248853 A1 20051110; US 6560031 B1 20030506; US 6791761 B2 20040914; US 6930837 B2 20050816; US 7450312 B2 20081111

DOCDB simple family (application)
EP 00119874 A 20000913; JP 2000318185 A 20001018; KR 20000061465 A 20001019; TW 89118630 A 20001204; US 17509205 A 20050705; US 39359303 A 20030320; US 69487800 A 20001023; US 83384004 A 20040427